

ABSTRACT.**CAVITY ANTENNA EXCITED WITH ONE OR SEVERAL DIPOLES.**

5 Cavity antenna excited with one or several dipoles
in a single piece, which has on the element that excites the
cavity a metallic plate connected to earth and which allows
the input impedance of the antenna to be adjusted as well as
the reflections in the radome, by means of the adjustment of
10 the distance with respect to the back wall of the cavity,
avoiding through the connection to earth that the antenna
becomes charged electrostatically. The cavity assembly and
the metallic plate allow a broader bandwidth, moreover a
simpler control is achieved in the adjustment of the level of
15 crosspolar polarization, as well as of the decoupling between
dipoles by modification in the shape of the metallic plate.
The grouping of the antennas in an array is possible in an
immediate manner with no need to alter the size or shape of
the cavities or of the dipoles which excite said cavities.

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